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Nguyen H Lam*, 301 Thackeray Hall, Pittsburgh, PA 15217. *Existence and symmetry of maximizers for a family of Caffarelli-Kohn-Nirenberg interpolation inequalities.*

In this talk, we will use a suitable map to investigate the sharp constants and optimizers for the Caffarelli-Kohn-Nirenberg inequalities for a wide range of parameters. Moreover, We will compute the best constants and the explicit forms of the extremal functions in numerous cases. This is joint work with Guozhen Lu. (Received September 04, 2015)